SHASHWAT JOHRI

+91-8319936140 ⋄ shashwatjohri@iitbhilai.ac.in ⋄ Linkedin ⋄ Github ⋄ Codeforces

EDUCATION

B.Tech. Computer Science, Indian Institute of Technology (IIT), Bhilai   July 2020 - May 2024
CGPA : 9.45/10.0   (Rank 1)
Relevant Coursework: Data Structures, Algorithms, ML, Computer System Design, AI, NLP, DBMS, OS, Computer Network
Volunteer Positions: Coordinator of Quizzing club 2021-22, Core Member of Google Developer Student Club and Literary and Debate Society.

EXPERIENCE

Backend Engineer   June 2024 - Present
Pi42 - Crypto Futures Trading Platform   *Location - Bengaluru*

- Frontlined the project for the end-to-end development of the "Cross Margin Mode" feature. Utilizing object-oriented programming best practices to ensure a robust and scalable solution in NestJS.
- Implemented **caching and pagination** within the core APIs, significantly enhancing website performance by optimizing the retrieval and improving overall user experience.
- Designed and implemented a state machine with optimistic locking, effectively **resolving concurrency issues and race conditions between multiple services in a complex system.**

Summer Intern   May 2023 - July 2023
C-DAC - Pune   *Location - remote*

- Used **Road Vector data** to identify and prioritize **accident hotspots** for PM Gram Sadak Yojana.
- Showcased **Python proficiency** by implementing research papers. Reproduced **81% accuracy** in road curve classification.
- Employed libraries like Pandas, GeoPandas, Matplotlib, and Shapely to clean, manipulate, and extract features from GIS road and accident data.

PROJECTS

Campus Food Delivery App [Node.js, MongoDB] (Github)
Led the project for a scalable and robust food delivery app for IIT Bhilai. Designed and built the ordering service endpoints using Express, MongoDB and socket.io. Implemented the login service endpoints incorporating JWT for authorization. ML based food recommendation system using metaflow which keeps improving with new data Tested various services using Mocha.

Downloadify - Spotify Downloader [React, Node.js] (Demo Downloadify), (Github)
Built an App to **fetch all of users' Spotify songs** and allow them to choose and **download multiple songs** with a Spotify inspired UI. Used Node.js for authentication with Spotify and React for front-end. Utilized the Youtube API for searching and downloading songs.

SKILLS & INTERESTS

Technical	**Typescript, NestJS, RESTful APIs**, Prisma, Python, C++, JavaScript, React
Tools	Git, Postman, Unix CLI tools, Shell Scripting, LaTeX
Interests	Algorithms, Data Science, Machine Learning, Web Development
Soft Skills	Clear Communication, Leadership, Quick Learning, Resourceful, Detail Oriented
Hobbies	Competitive Programming, Quizzing, Speed Typing, Speed Cubing, Swimming, Football, Chess

ACCOMPLISHMENTS

- **All India Rank 89**: ICPC Kanpur-Mathura 2023 Qualifier Round [C++]. **ICPC Regionalist(×2)**.
- Solved **700+ problems** on platforms like Leetcode, Codechef(**Max Rated 1950, 4 stars**), Codeforces (**Specialist**), etc.
- **First place in Automation challenge** by Google Developer Student Club, IIT Bhilai [**Python**,OpenCV].
- **All India Rank 4300**: Joint Entrance Examination (JEE) - Advanced 2020 (Total **1.5 Million candidates**).
- **First Place** in National Finals: 'FUNancial Quest' Season 6 - Annual Financial Quiz Held at **NSE, Mumbai HQ** and broadcast on CNBC-TV-18. Obtained a cash Prize of Rs. 1 Lakh.

LEADERSHIP

- **Quizmastered** and coordinated the conduction of **"ExQuiZite 3.0"**: The Pan India **flagship Quizzing Event** of IIT Bhilai. Managed a team of 20 students. Attracted participation from 200+ students from several top colleges of India.